

**METHOD AND SYSTEM FOR PREDICTING PERFORMANCE OF A
DRILLING SYSTEM FOR A GIVEN FORMATION**

ABSTRACT OF THE DISCLOSURE

A method and apparatus for predicting the
5 performance of a drilling system for the drilling of
a well bore in a given formation is disclosed. The
method generates a geology model of a given
formation. The geology model includes a geology
characteristic of the given formation per unit
10 depth. The method also determines a predicted
drilling performance for a proposed drilling
equipment based on the geology model and
specification data of the proposed drilling
equipment, wherein the specification data of the
15 proposed drilling equipment is a function of the
geology characteristic.